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Modern Design
in
Doors and Windows

Richards-Wilcox Canadian Co. Ltd.

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Modern Design in Doors and Windows

Richards Wilcox Canadian Co Ltd

WHEN one of our early ancestors first crawled into a cave and set up house-keeping in a primitive form, the idea of a doorway was born. Probably the ancestor did not recognize it as such, but his children and his children's children have gone ahead developing the idea all the way down through the ages.



The first door was in all probability a blazing fire in the cave entrance. Something wild animals dared not pass. Later, skins were stretched across the opening cutting off drafts and making things warm and cosy inside.

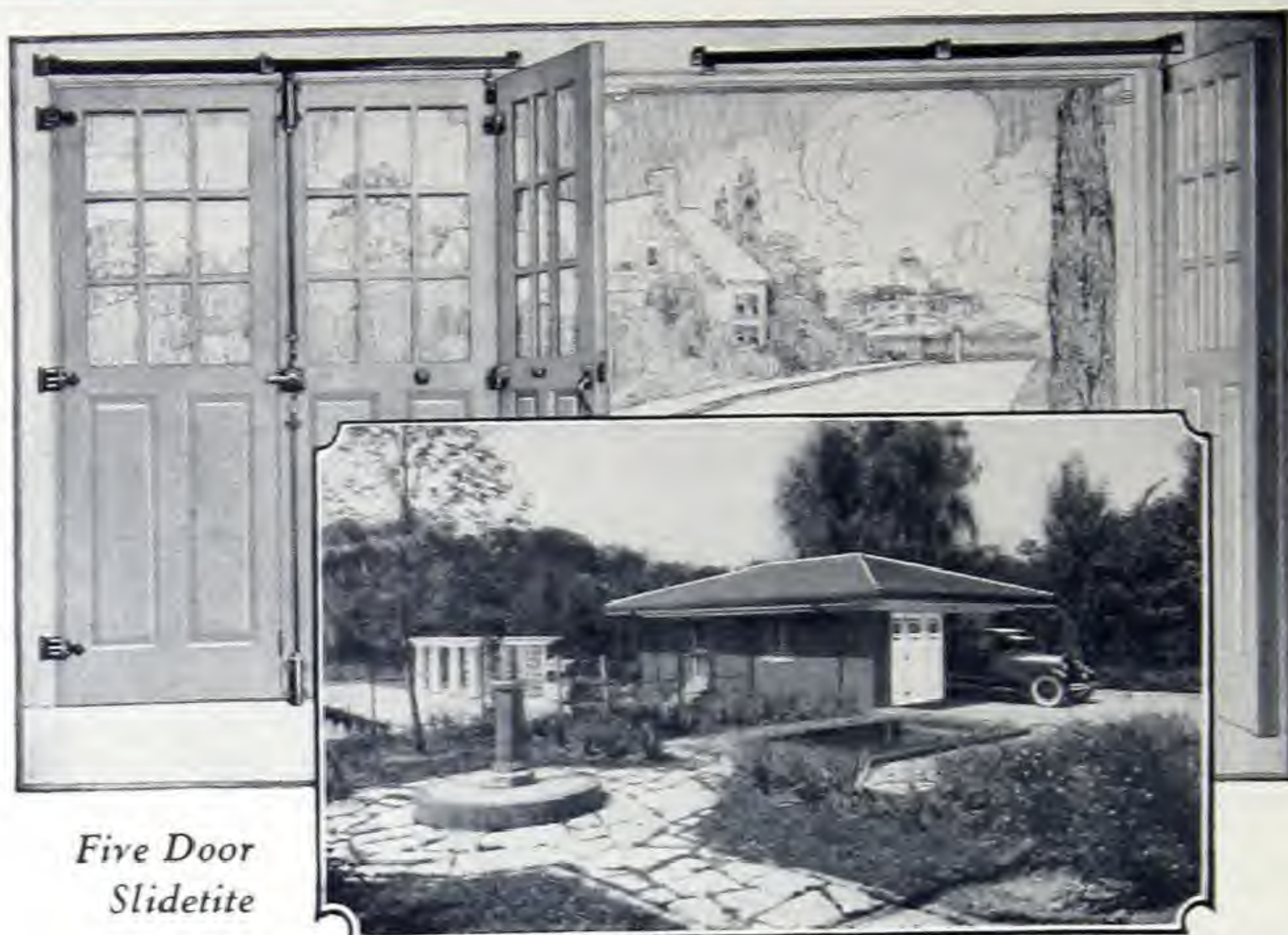
Closing things up in this way meant knocking a hole high up in the wall, perhaps in the roof, because the smoke must get out somewhere and one could not live in too close an atmosphere, not even in those days of freedom. The strange thing was that daylight came through these holes and then some particularly bright ancestor invented the window idea—although not patented at that time.



These primitive ideas have grown gradually as the race climbed upward. The North American Indian in his tepee, a door in the side and a window in the top. New World stockades with solid wooden doors to hold back those same Indians, the windows, narrow slits just big enough to poke a blunderbus through. In the Older World, high battlements with tiny windows in the towers and a huge drawbridge. "Ho Warder! Drop the drawbridge and raise the portcullis." Imagine going through all that before you could run out the car and get down to the office. Particularly after spending some time in rooms where a thin shaft of light and a thinner breath of air found its way through little two-by-two windows.



Fortunately those days are gone never to return, and here are some of the improvements that have been made on the doors and windows of our ancestors.



Five Door
Slidetite

Slidetite Doors

THE warder—the drawbridge—the portcullis are gone. Every home, every apartment needs its own garage designed in harmony with the building. Doors make a great difference in the appearance of any garage.

Slidetite Hardware makes it possible to use narrow artistic doors that harmonize splendidly with any architectural design. It does not matter whether the garage entrance is eight feet wide or thirty feet wide, Slidetite will do the



Six Door Slidetite



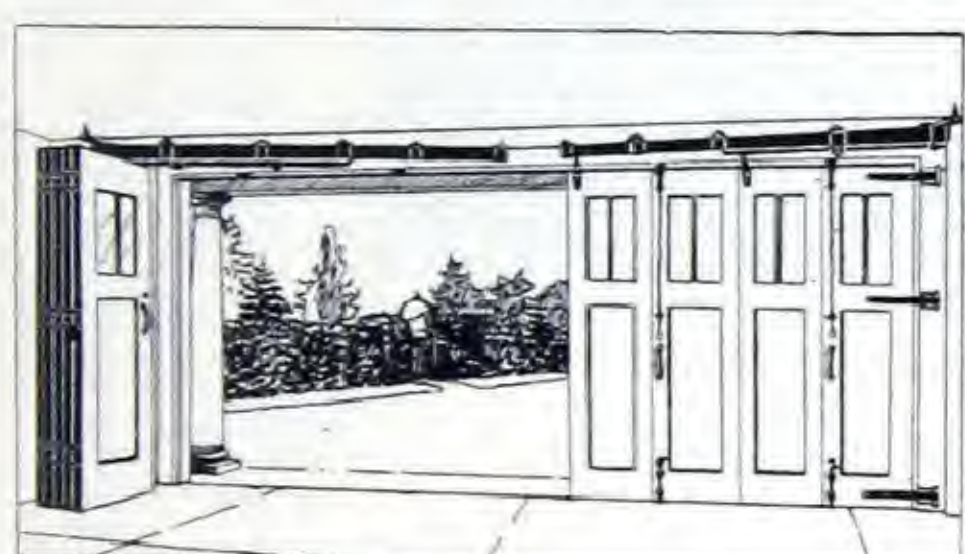
Three Door Slidetite

work. Three doors for eight foot entrances and on up to ten doors for thirty foot entrances, with not a centre post in the whole opening—and the doors folding *inside*. Folding inside means a lot—you will appreciate this if ever you have had to dig the snow away from in front of doors that swing outward—or

chipped away the ice that blocked them—or had the wind catch them just as you were driving in. The least it meant was getting out and opening the door again, the worst a marred fender, a broken headlight, or a broken door. Those are the things that don't exist with doors that open *inward*. For a three-car garage where a clear opening twenty to twenty-four feet wide is desired, the ideal installation is Eight Door Slidetite. Four doors slide and fold to each side, smoothly and easily. They do not get out of order and the doors are kept straight because the entire weight is carried by overhead track and hangers.



Eight Door Slidetite



Nine Door Slidetite

This illustrates an interior view of Nine Door Slidetite. Five doors folding to one side with the centre door swinging free on hinges and four doors folding to the other side.

Slidetite sets are supplied in A and B styles. Style A includes top chain bolts and bottom cane bolts. Style B includes top and bottom bolt in place of the chain bolts and cane bolts. Slidetite sets include all necessary hardware, Hangers, Track and Fixtures including Butts, Bolts and Screws, and Hinges.

Ten Door Slidetite is the largest size supplied. It provides an opening thirty feet wide, without any centre posts.

Slidetite is designed to open inward, but there is no reason for not using the hardware on doors that must open outward. This is particularly true of wide entrances on garages not having sufficient depth to permit folding the doors inside when the car is run in. D and F sets are made to open outward. The D style is supplied with Top Chain Bolts and Bottom Cane Bolts, the F style with Top and Bottom Bolts.



Ten Door Slidetite



*Rolltite
on the
garage
of a
country
estate*

Rolltite overhead Doors



*Rolltite
The
Space-Saving
overhead
Door*

SPACE-**SAVING** becomes more of a problem every day. Sometimes it seems impossible to allow that extra three feet so that doors may fold inside and for such cases the ideal door is Rolltite. It is distinctly a space-saving door, and may be had for any width of opening up to twenty feet.

The door is made up of four or more sections according to the height of opening. These sections are hinged together and operated by a heavy spring carried on a ball-bearing journal. The guide rollers at the side are also ball-bearing, assuring the greatest ease of operation. The sections are made of selected white pine with fir veneer panels. The hardware is strong and the whole door unit tight-fitting and durable. The design is adaptable to any style of entrance.



Inside view of Rolltite

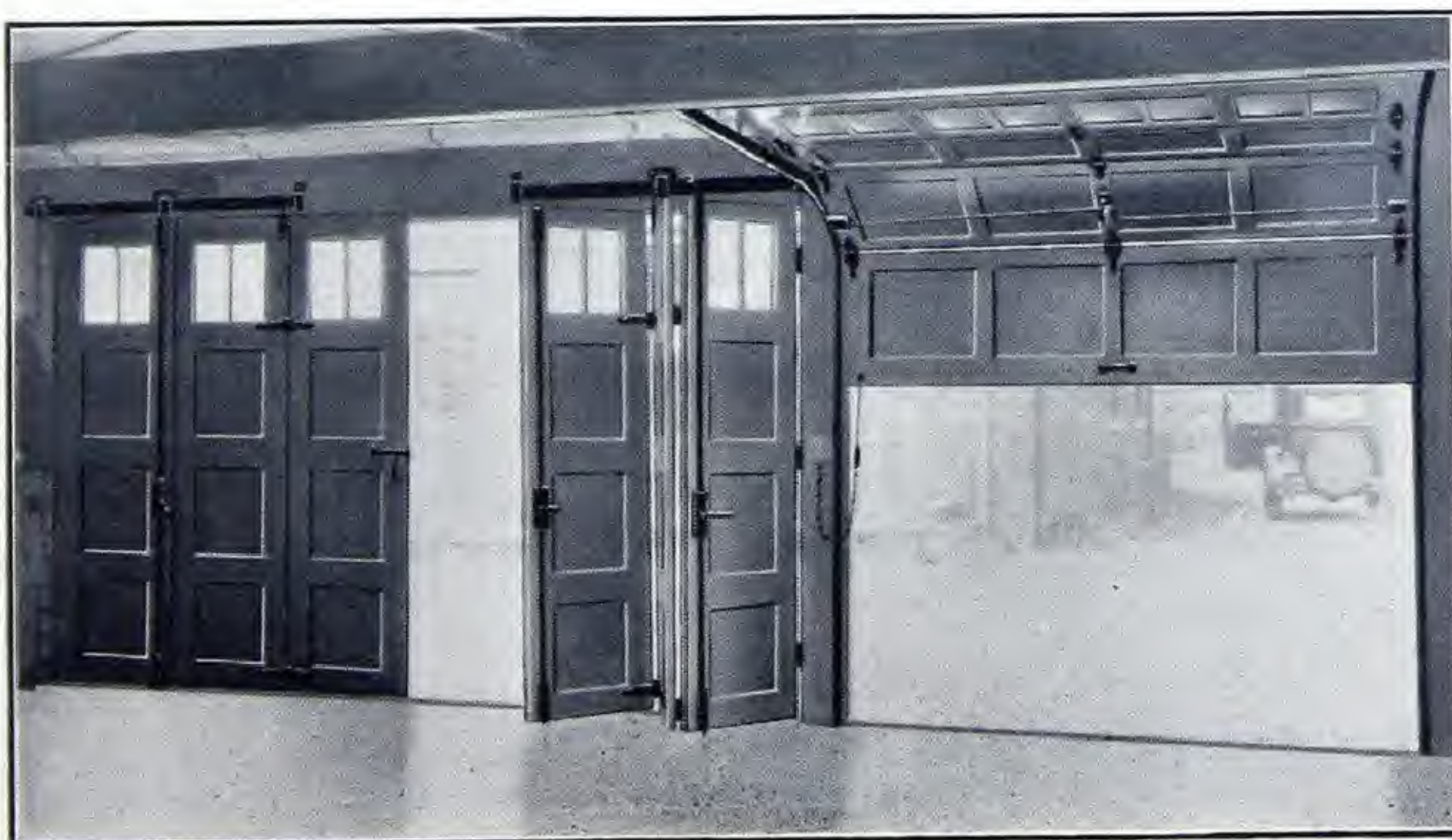
*Two-car garage
Rolltite
equipped*

This is a two-car garage typical of the plans now used for many modern homes. Rolltite doors are very well suited for such installations. The space-saving feature is particularly noticeable.

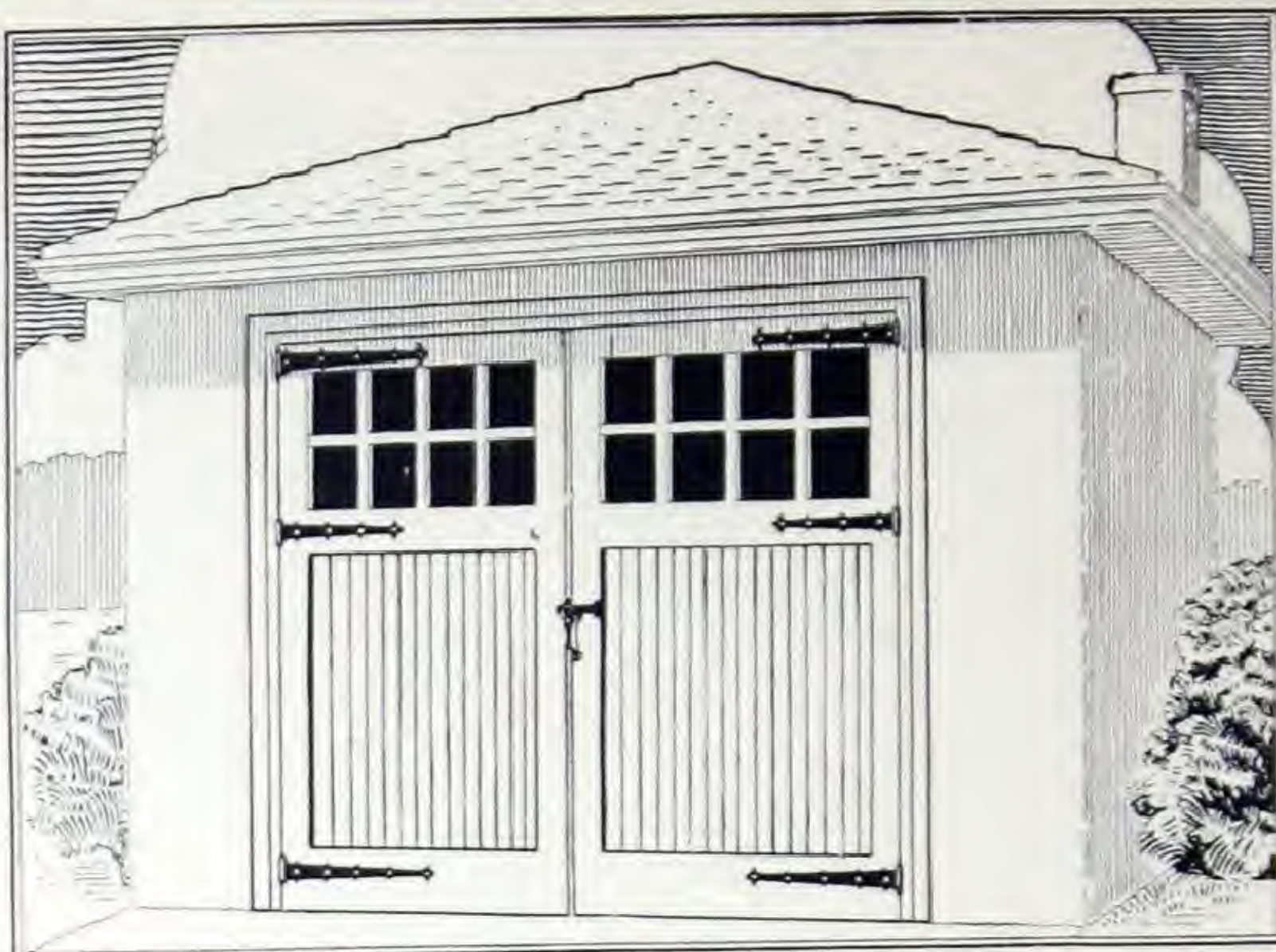


Another point in connection with Rolltite doors is that while other types require anything up to three feet additional depth to allow for door clearance, Rolltite requires at most a few extra *inches*. The saving in building costs of three extra feet of walls, flooring, and roof will more than pay for a modern Rolltite overhead Door.

Here is a Rolltite installation in combination with Slidetite. It is used as a matter of convenience by a very busy doctor. The Slidetite doors open on the space reserved for the family car. His own car occupies the Rolltite side and there is a Rolltite door at each end. This assures getting away quickly every time. The doors may be opened in an instant and there is a clear way ahead, no need to back and turn. This is a very attractive arrangement for a busy man.

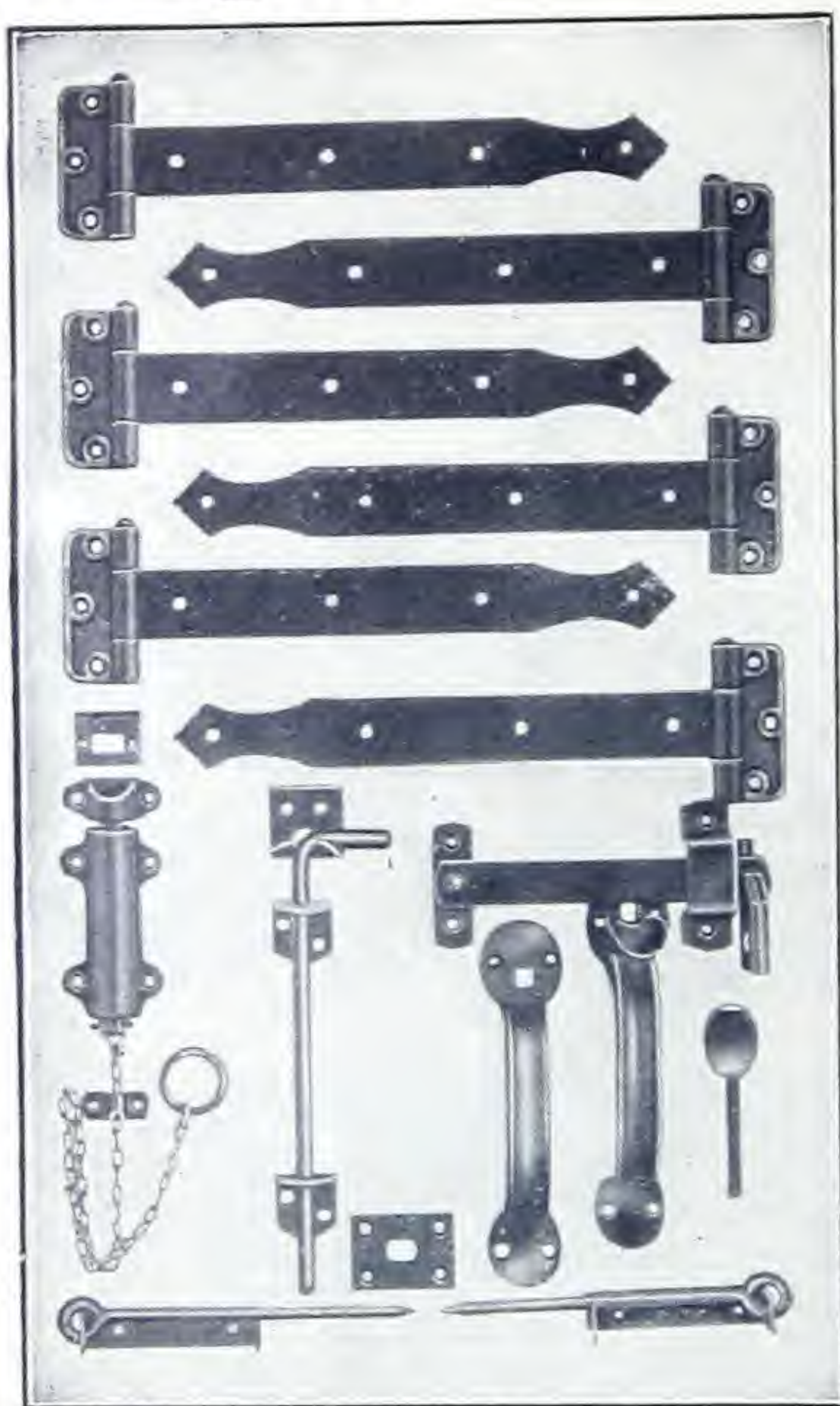


Slidetite in combination with Rolltite



No. 7
Swingtite

Swingtite



No. 9 Swingtite

THERE are times when circumstances of one sort or another make it necessary to use doors that swing outward. For this purpose Swingtite Hardware is best. Each set is complete for one pair of doors and includes Malleable Hinges with necessary Bolts and Nuts, Top Chain Bolt and Bottom Cane Bolt, Double Grip Latch and Door Dogs to brace doors against swinging in the wind. There are several styles of hinges including a particularly attractive design of early English type (No. 7). Swingtite hardware is sturdily made and will add greatly to the appearance of any outward opening doors.



This is a complete set of No. 9 Swingtite. Each set of Swingtite is similarly complete, the only variation being in the design and weight of material as supplied for different weights and sizes of doors.

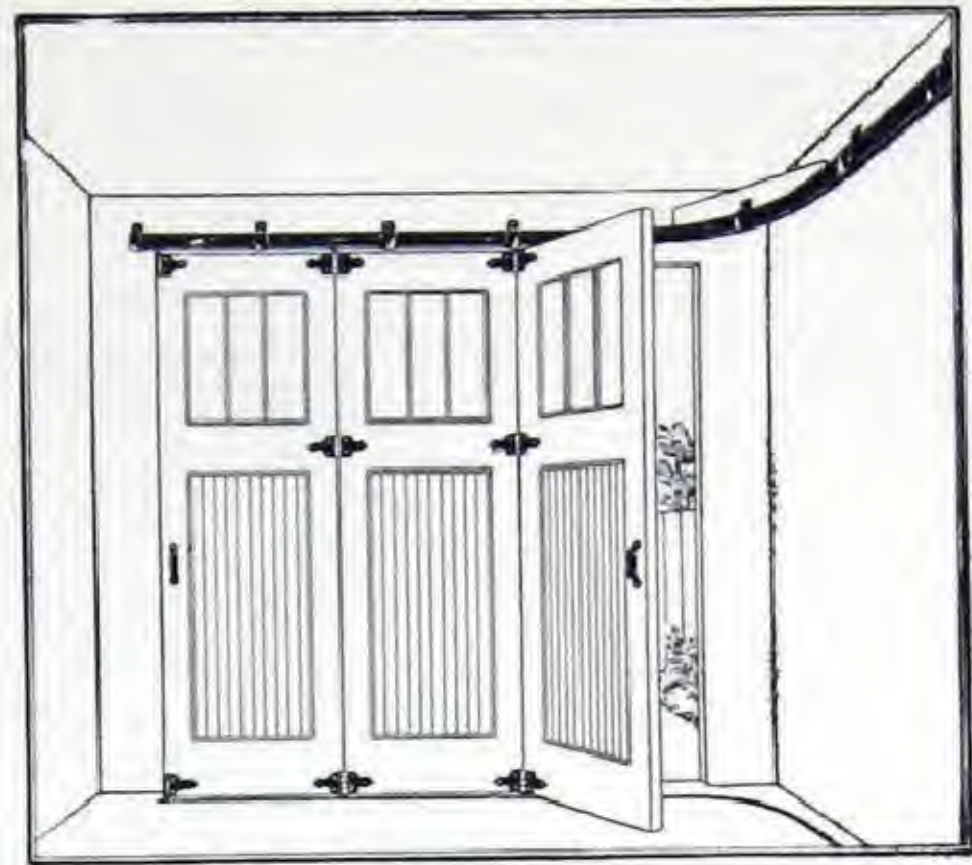


No. 7 "Swingtite" Hinge in 18 and 24 inch sizes

Other Types

Right Angle Sliding Doors—

No. 235F Equipment

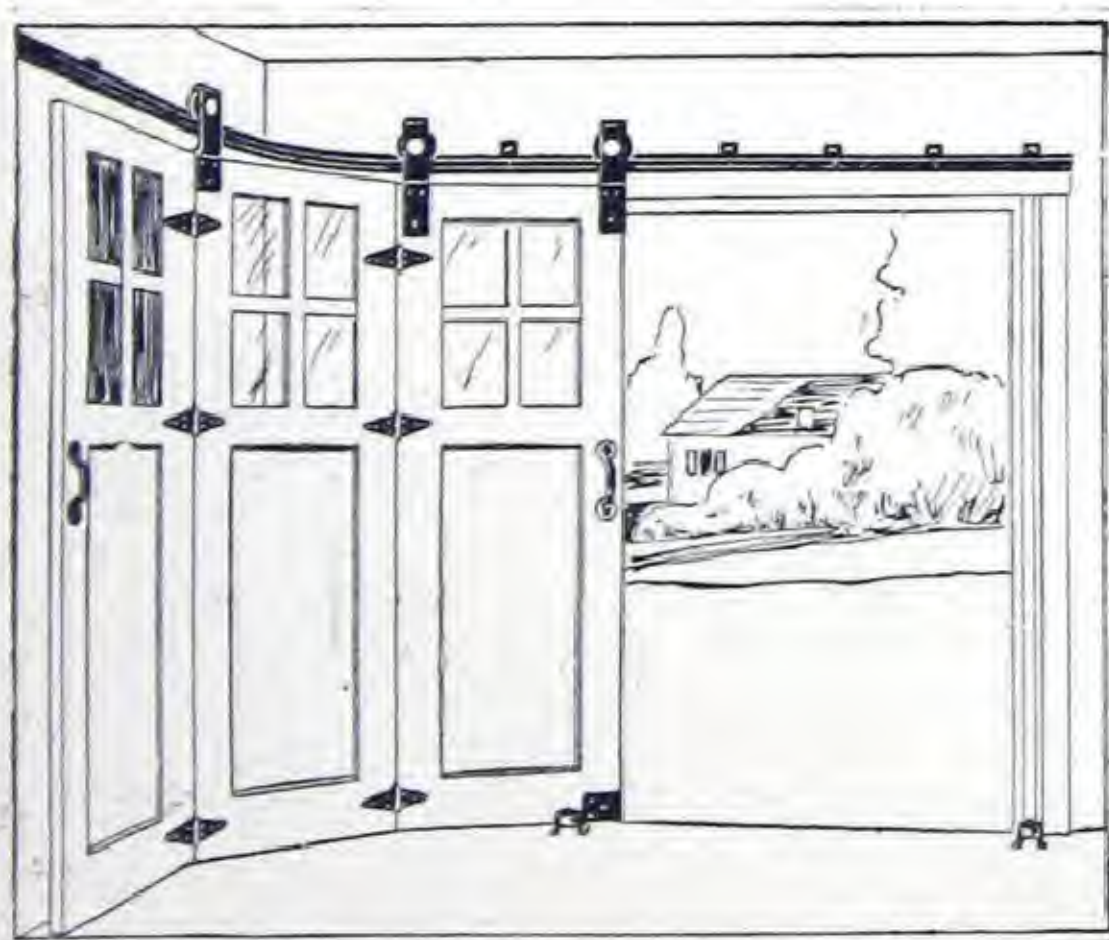


No. 235 F equipment

WHEN there is less than a fifteen inch space between the opening and the side wall and three or more doors are required, this type of hardware with curved trolley track is very suitable. The hangers run in trolley track and all danger of hangers jumping off the track is avoided. The standard set of hardware for an eight foot opening consists of three knuckle-joint hangers, one 24-inch radius curve, thirteen feet of R-W No. 31 Copper Steel Trolley Track with necessary brackets, two stay rollers, three pairs of heavy butts and two door handles.

Three Doors Round the Corner

No. 736 is an inexpensive set of hardware, better than ordinary hinges because it does not permit the door to bind, warp or sag. It operates on a flat track and while it has not the advantages of doors hung on trolley track as No. 235F, it provides a very convenient entrance. The end door (left side) is hung on hinges only and may be used for a passage door. The track is curved on a radius of about thirty inches. The



No. 736 equipment

complete set consists of three hangers, twenty-two feet of track, three pairs of hinges, three stay-rollers, two handles, one safety hasp and the necessary screws.

For both the sets described on this page the swing door may be at either end but the curve must be at the same end.

Choose the Right Door



Slidetite

A COMPLETE set of hardware for any opening between eight and thirty feet wide. The number of doors varies from three to ten, depending upon the size of the entrance.

No centre posts are needed. Slidetite slides and folds the doors inside. Snow and ice cannot block them. Winds cannot blow them about.

Slidetite requires approximately three feet of clearance over the car length to permit operation of doors.



The hardware is complete in every detail, strongly made, well-finished and being unexposed to weather will last indefinitely.



Swi

sing
ght
or



Rolltite

A complete unit—door and hardware—designed especially to meet the need of saving space. Rolltite rolls up overhead when opened and occupies a minimum of space.

Rolltite is made in four or more sections according to the height of opening and in any height of opening and in any width up to twenty feet. A heavy torsion spring carries the weight and the moving parts are mounted on ball bearings.

Rolltite has all the advantages of inward opening Doors—free from trouble with wind, snow or ice.



Swingtite Hardware sets are complete in every detail for a pair of outward opening doors. They are substantially made and attractive in appearance.



gtite



AiR-Ways

THESE big, wide windows bring the outdoors in—when you want it. They fold aside leaving a clear opening through which sunshine and fresh air come streaming. When it storms or blows AiR-Ways may be closed in an instant, locked securely, tight and rattle-proof against the weather. Screens (or storm sash) may be used without any inconvenience because AiR-Way folds inside.

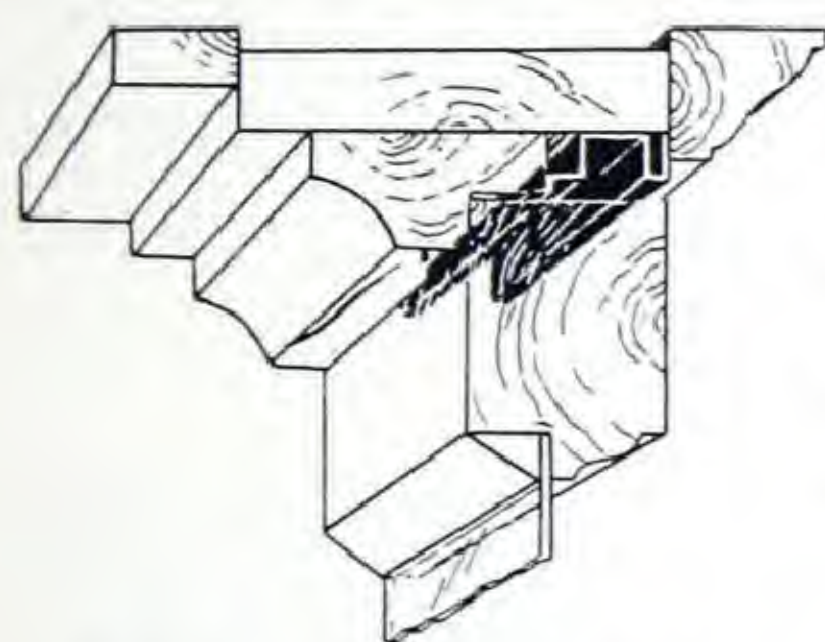
A standard set of "AiR-Way" Hardware consists of:
Solid brass bottom track (width of opening plus 3")
Solid brass top track (width of opening plus 3")
Solid brass threshold (width of opening plus 3")
Solid brass links (two for each sash)
Solid brass bow handle fastener (on each sash)
Solid brass safety lock (on each sash)
Brass plated butts (1 pr. for sash opening one way), or 2 pr. for sash opening two ways)
Brass plated chafing plate (one each sash)
Brass plated rubber stop (one each sash)

Blue prints showing all construction details are always supplied, but we have found that every possibility of error is avoided if the construction of sash and frames is left to us. The sash are assembled in the frame and hardware fitted on complete ready to erect, after which the finishing trim is made on the job. In this way complete satisfaction is assured.



*AiR-Way
in the
modern
home*

This is an AiR-Way installation in a modern home. The maximum of light and ventilation is always available and the

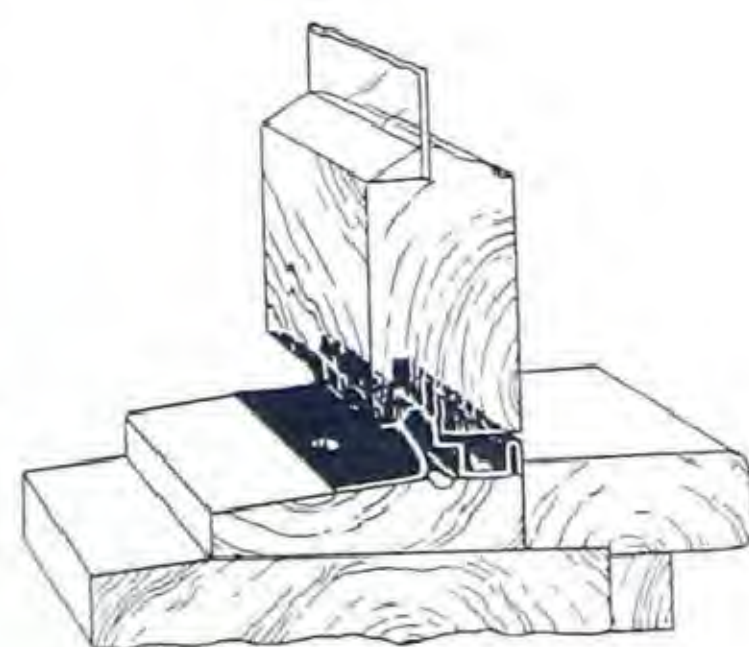


Top of AiR-Way Window

windows are quite in harmony with the rest of the room, its decorations and draperies. The sections may be opened as wide or as little as desired. When closed they are absolutely weatherproof, the top and bottom fitting into the frame as shown in these two drawings. Note how closely they fit and also how the arched groove

at the bottom of the sash (just back of the threshold) eliminates the possibility of moisture following the bottom of the sash.

AiR-Way hardware is supplied in sets for two, three or four sash folding in either direction. Hardware is designed for sash not more than 12 square feet in area and maximum width of sash not to exceed 24 inches. It is advisable to keep each opening within the limitation of a span 11 feet in width for windows having transom sash when our standard design of transom bar is used, or 16 feet for windows having no transom sash and a total vertical sash height of six feet.

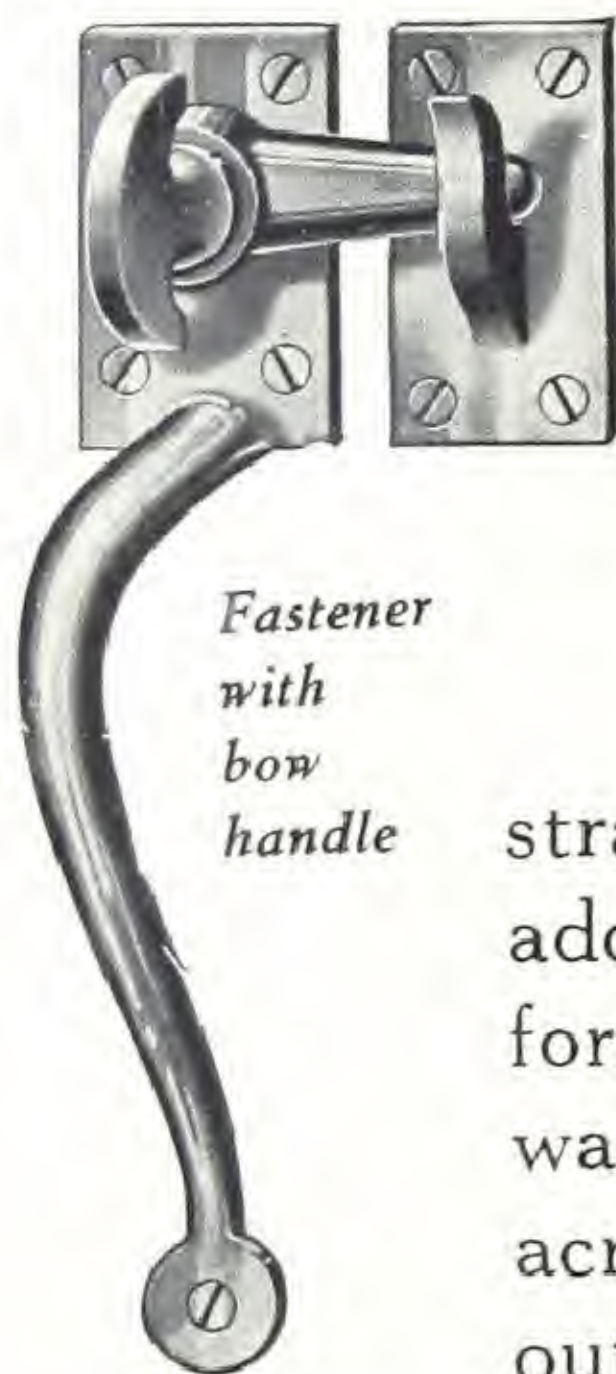


Bottom of AiR-Way Window

*AiR-Way in the
living-room*



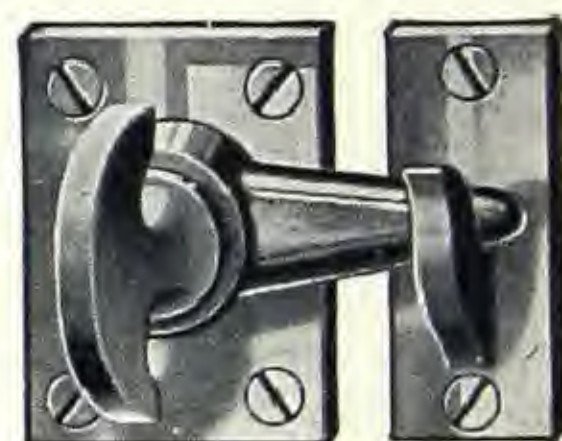
AiR-Way adds grace and charm to interiors as well as to exteriors. The spacious freedom in our rooms to-day finds its counterpart in the freedom of AiR-Way. Many types of drapery may be used with it, all of them in keeping with the plan of freedom and airiness.



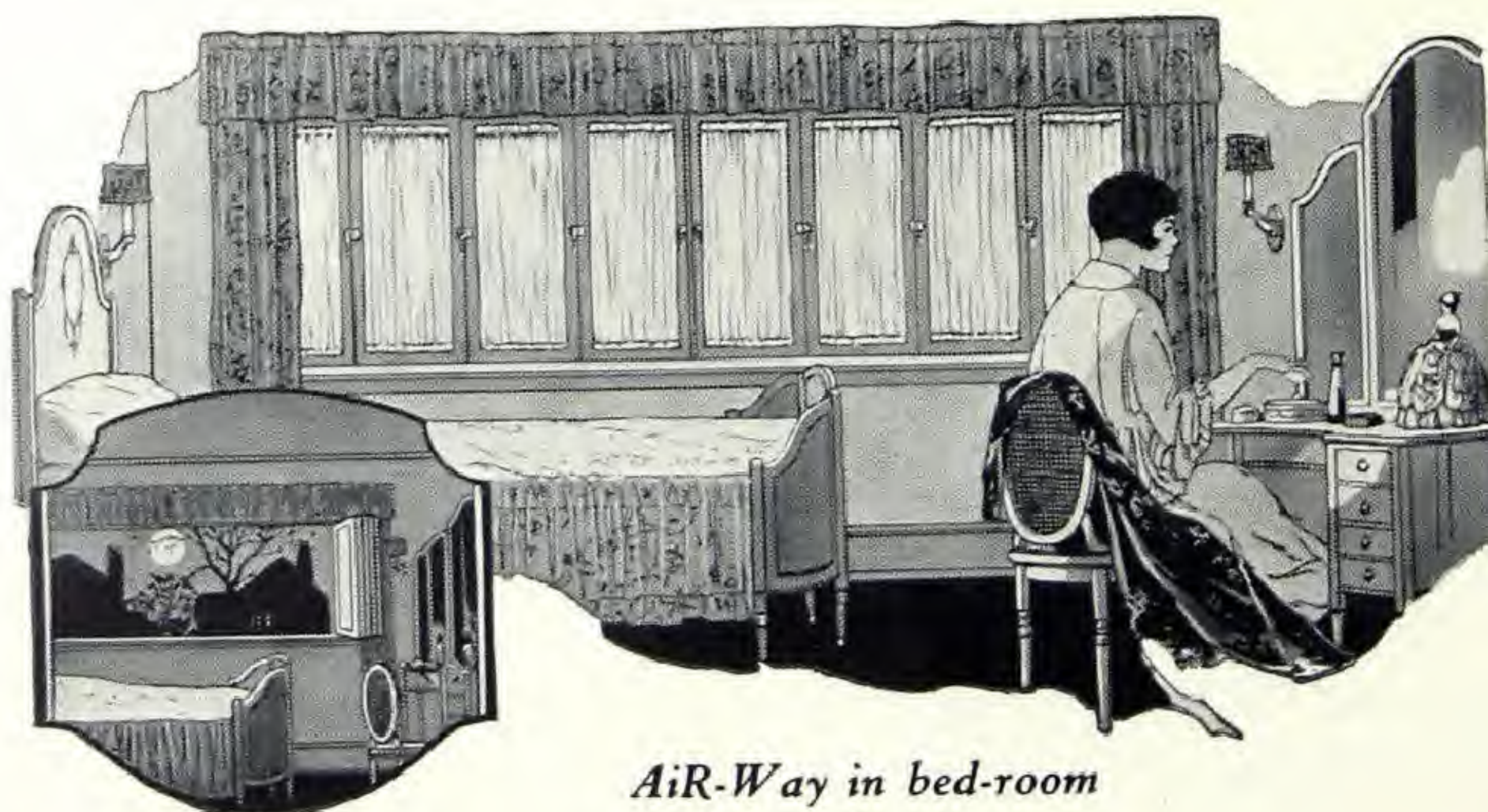
*Fastener
with
bow
handle*

Sleeping-rooms too, are most adaptable, to the use of AiR-Way. Being adjustable AiR-Way may be opened as much or as little as desired. Part of the series may be opened while the remainder are closed—or on hot stuffy nights with windows opened wide, every

stray breath of air finds its way in, adding coolness for rest. Do not forget that these windows open inward so that screens may be placed across the entire opening and without the slightest inconvenience.



Thumb Fastener



AiR-Way in bed-room



"AiR-Way" Adjustable Link

For every room in the house, AiR-Ways are the ideal windows. Living-rooms, sleeping-rooms, dressing-rooms, and bath-rooms too. For dining-rooms they are perfect. The mention of dining-rooms suggests a very practical application of AiR-Ways. Where could they be more welcome than in the kitchen? Just imagine the difference between working in the almost unbearable heat of a kitchen where window space, as too frequently happens, has been overlooked and working in comfort almost out under the trees, because the windows are opened so wide. Too frequently the kitchen suggests uncomfortable drudgery—and all for the lack of a big wide window.



Chafing Plate



Rubber Stop



Safety Lock



*AiR-Way
in the kitchen*



Sliding Doors between dining-room and living-room

Sliding Doors —a Decorative Feature

THE Sliding Door has many advantages. Very artistic decorative effects are obtainable and from the viewpoint of convenience there are many places where they are most desirable.

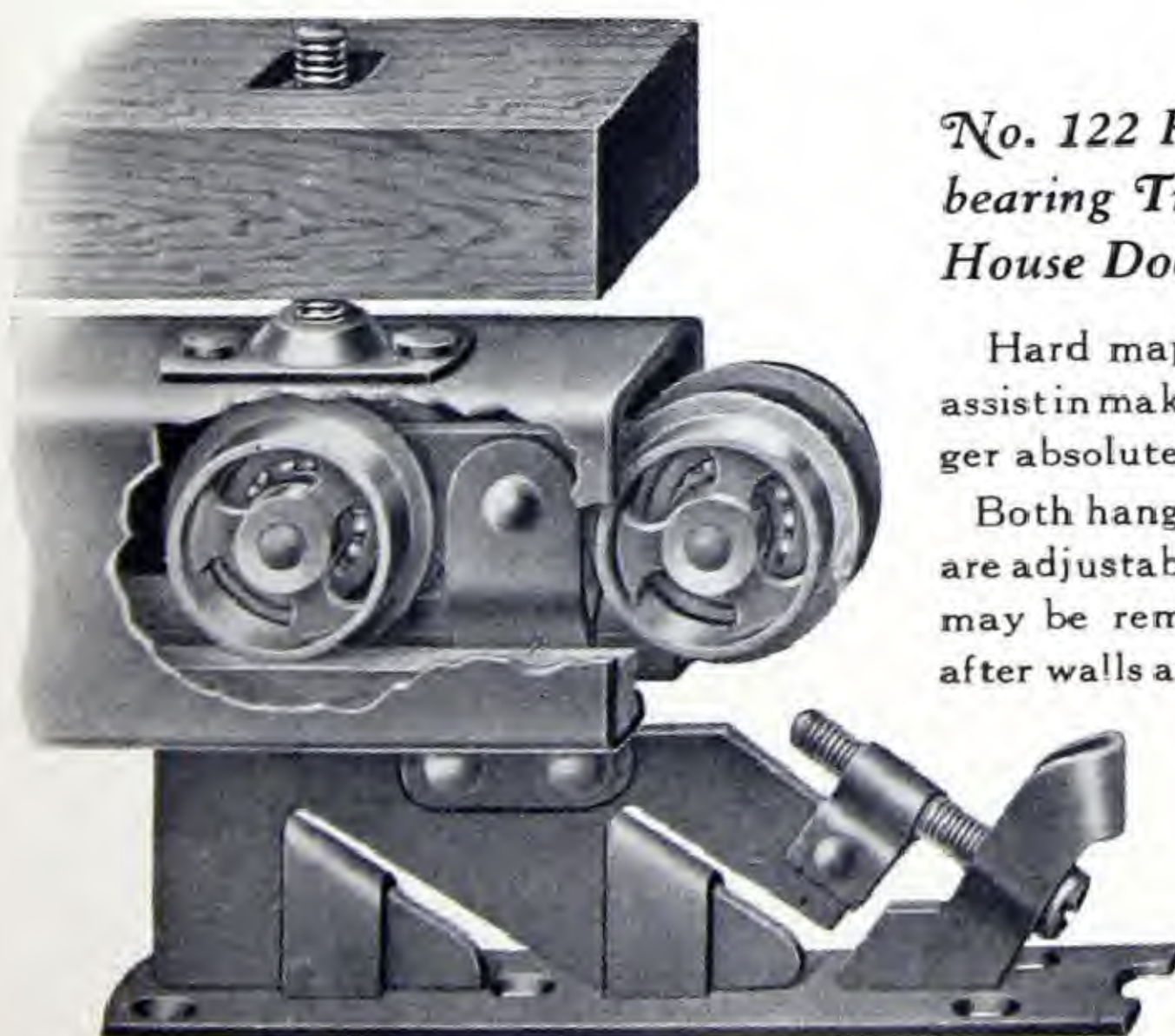
They may be made in many attractive styles, which slide quietly into the wall space. Because they do not swing out into the room, space is gained and furniture may be more conveniently placed without danger of being marred. Frequently adjoining rooms are given entirely different color treatment, which is also applied to the doors. Through the use of sliding doors, any possibility of clash in color harmony is avoided, since the doors do not swing into the other room.

Richards-Wilcox Hardware for Sliding Doors is most complete. There are many different types depending upon the amount which is to be spent and the type of door to be installed.



Partition Doors—convenient and decorative

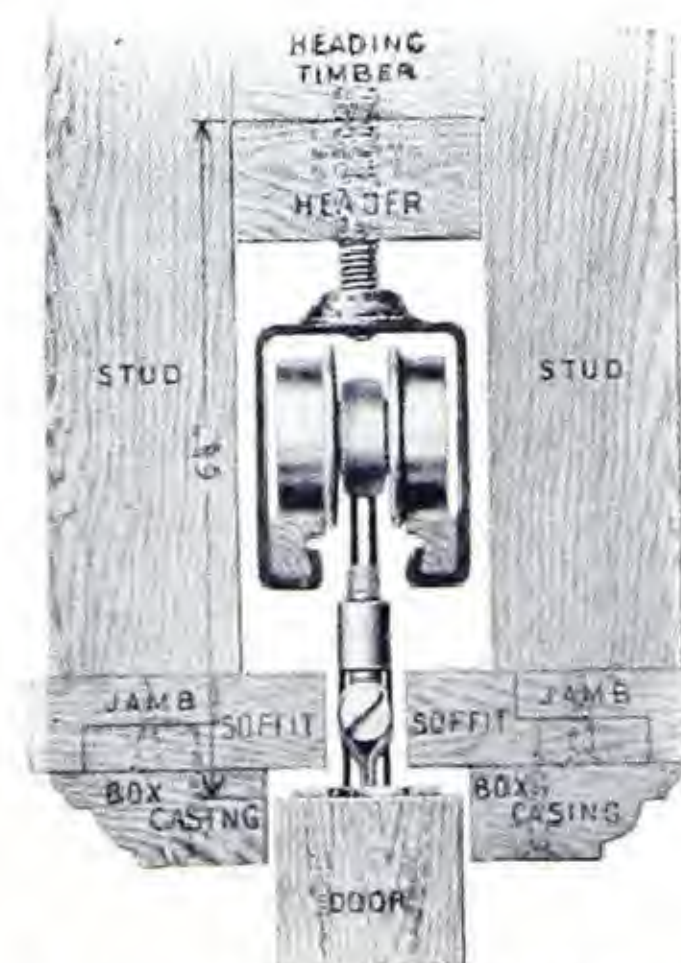
This hardware is especially designed for quiet operation. In many cases fibre wheels are used on the hangers, and the tracks are wood-lined. Several of the various styles are equipped with ball-bearings. The hangers are adjustable, so that any settling of the building will in no way affect the smooth easy movement of the doors. Additional adjustment is provided in the track, which may be raised or lowered. These adjustments are made with a minimum of inconvenience.



*No. 122 Royal Ball-bearing Trolley,
House Door Hanger*

Hard maple runways assist in making this hanger absolutely noiseless.

Both hanger and track are adjustable, and track may be removed easily after walls are plastered.



End view of Royal Hanger

Richards-Wilcox

THE name "Richards-Wilcox" stands for all that is best in door hardware. This must also include AiR-Way Window Hardware. It is impossible to give in a small booklet more than a brief idea of all the various applications of the different types of doors and windows. Long experience has filled our files with ideas and plans that cover almost every conceivable application of doors or hardware. Should you have any installation in mind, or if you wish for suggestions or plans, we shall be glad indeed to hear from you and to send helpful information. A line to any one of our offices will bring an immediate reply. Ask any leading hardware dealer, or discuss it with any contractor or architect, they all are familiar with the quality and workmanship of R-W Products.



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